

## WHAT IS CLAIMED IS:

1 1. A method of assisting in forming plans of measures for  
2 management reforms, which is executed by an information processor,  
3 wherein:

4 a general business-operation-index group including a plurality of  
5 indexes indicating the condition of business operation of an enterprise, a  
6 general plan-of-measures group including a plurality of plans of measures,  
7 each of which is information showing how to deal with the condition  
8 indicated by the respective indexes included in said general  
9 business-operation-index group, and the first correlation-information group  
10 including a plurality of correlation information, each of which defines the  
11 correlation between the respective indexes included in the general  
12 business-operation-index group and the respective plans of measures  
13 included in the general plan-of-measures group are stored in a data storage  
14 device;

15 a problem-index group is produced by extracting, as problem  
16 indexes indicating problems in the business operations to be improved, one  
17 or more business operation indexes from the general operation-index group  
18 and stored in the data storage device;

19 the second correlation-information group is produced by extracting  
20 correlation information relating to the problem indexes included in the  
21 problem-index group from the first correlation-information group;

22 a potential plan-of-measures group is produced by selecting one or

23 more plans of measures relating to the second correlation-information group  
24 from the general plan-of-measures group; and  
25 the resultant one or more potential plans of measures included in  
26 the potential plans-of-measures group are output.

1 2. The method of assisting in forming plans of measures for  
2 management reforms according to Claim 1, wherein:  
3 risk level information indicating levels of risk caused when the each  
4 plan of measures included in the general plan-of-measures group is executed  
5 is further stored in the data storage device;  
6 input of information designating the acceptable risk level is  
7 accepted by the information processor; and  
8 the second correlation-information group is produced by extracting  
9 information which define correlation relating to the problem indexes and to  
10 plans of measures having a risk level equal or lower than the input risk  
11 level, from the first correlation-information group.

1 3. The method of assisting in forming plans of measures for  
2 management reforms according to Claim 2, wherein:  
3 gross investment information indicating the amount of investment  
4 necessary to execute the each plan of measures included in the general  
5 plan-of-measures, and a business-operation-index-profit  
6 correlation-information group including correlation information which  
7 correlate the profit of the enterprise with the general business operation  
8 indexes, are further stored in the data storage device;  
9 a problem-index - profit correlation-information group is produced

10 by extracting information which describe correlation relating to the problem  
11 indexes from the business-operation-index profit correlation-information  
12 group;

13 input of the gross investment intended to invest in management  
14 reforms is accepted by the information processor;

15 a final plan-of-measures group including plans of measures which  
16 maximize the profit of the enterprise is found out from the potential plan of  
17 means included in the potential plan-of-measures group, under the limiting  
18 conditions that the gross investment necessary to execute the each selected  
19 plan of measures is equal or lower than the input gross investment and that  
20 the each plans of measures is either adopted or not adopted; and

21 the resultant final plans of measures are output.

1 4. The method of assisting in forming plans of measures for  
2 management reforms according to Claim 3, wherein:

3 input of target profit of the enterprise is accepted by the  
4 information processor; and

5 it is judged whether the profit of the enterprise obtained by the  
6 each found plans of measures is equal or larger than the input target profit,  
7 to output the plans of measures when it is equal or larger.

1 5. The method of assisting in forming plans of measures for  
2 management reforms according to Claim 4, wherein:

3 change of the risk level is accepted by the information processor  
4 when the profit of the enterprise given by the found plans of measures is less  
5 than the target profit; and

6           when the risk level is changed, information which define  
7 correlation relating to the problem indexes and to the plans of measures  
8 having a risk level equal or lower than the changed risk level are selected  
9 from the first correlation-information group, to produce the second  
10 correlation-information group.

1   6.       The method of assisting in forming plans of measures for  
2 management reforms according to Claim 4, wherein:

3           change of the gross investment is accepted by the information  
4 processor when the profit of the enterprise given by the found plan of  
5 measures is lower than the target profit;

6           a final plan of measures which maximizes the profit of the  
7 enterprise are found from the selected potential plans of measures under the  
8 limiting conditions that the gross investment necessary to execute the  
9 selected plan of measures is equal or lower than the changed gross  
10 investment and that the each plan of measures is either adopted or not  
11 adopted; and

12          the resultant final plans of measures are output.

1   7.       The method of assisting in forming plans of measures for  
2 management reforms according to Claim 1, wherein:

3           a general business-operation-index vector  $f$  as the general  
4 operation-index group, a general plan-of-measures vector  $x$  as the general  
5 plan-of-measures group, and an operation-index - plan-of-measures matrix  
6  $M_m$  as the first correlation-information group are stored in the data storage  
7 device, respectively;

8 a problem-index vector  $f$  is produced by extracting, as problem  
9 indexes indicating problems in the business operations to be improved, one  
10 or more business operation indexes from the general operation-index vector  $f$   
11 and stored in the data storage device;

12 a problem-index - plan-of-measures matrix  $Mm'$  is produced, as the  
13 second correlation-information group, by extracting correlation information  
14 relating to the problem indexes included in the problem-index vector  $f$ , from  
15 the business-operation-index - plan-of-measures matrix  $Mm$ ; and

16 a potential plan-of-measures vector  $x'$  is produced by selecting one  
17 or more plans of measures relating to the problem-index - plan-of-measures  
18 matrix  $Mm'$  from the general plan-of-measures vector  $f$ .

1 8. The method of assisting in forming plans of measures for  
2 management reforms according to Claim 7, wherein:

3 risk level information indicating levels of risk caused when the each  
4 plan of measures included in the general plan-of-measures vector  $x$  is  
5 executed is further stored in the data storage device;

6 input of information designating the acceptable risk level is  
7 accepted by the information processor; and

8 the problem-index - plan-of-measures matrix  $Mm'$  is produced by  
9 extracting information which define correlation relating to the problem  
10 indexes and to the plans of measures having a risk level equal or lower than  
11 the input risk level, from the business-operation-index - plan-of-measures  
12 matrix  $Mm$ .

1 9. The method of assisting in forming plans of measures for

2 management reforms according to Claims 7, wherein:

3 information indicating the amount of investment necessary to  
4 execute the respective plans of measures, and a business-operation-index -  
5 profit matrix  $M_p$  which correlates the profit of the enterprise with the  
6 general business operation indexes, are stored in the storage device together  
7 with the general plans of measures;

8 a business-operation-index - profit matrix  $M_p'$  including elements  
9 relating to the selected problem-index vector  $f'$  is produced from the  
10 business-operation-index - profit matrix  $M_p$ ;

11 input of the gross investment intended to invest in management  
12 reforms is accepted by the information processor;

13 a final plan of measures which maximizes the profit of the  
14 enterprise is found from the selected plan-of-means vector  $x'$  as the potential  
15 plans of measures, under the limiting conditions that gross investment  
16 necessary to execute the each selected plan of measures is equal or lower  
17 than the input gross investment and that the each plan of measures is either  
18 adopted or not adopted; and

19 the resultant final plan of measures is output.

1 10. A method of assisting in forming plans of measures for  
2 management reforms, which is executed by an information processor,  
3 wherein:

4 a general business-operation-index group including a plurality of indexes  
5 indicating the condition of business operation of an enterprise, a general  
6 plan-of-measures group including a plurality of plans of measures, each of  
7 which is information showing how to deal with the condition indicated by the

8 respective indexes included in said general business-operation-index group,  
9 the first correlation-information group including a plurality of correlation  
10 information, each of which defines the correlation between the respective  
11 indexes included in the general business-operation-index group and the  
12 respective plans of measures included in the general plan-of-measures group,  
13 gross investment information indicating the amount of investment necessary  
14 to execute the each plan of measures included in the general  
15 plan-of-measures, and a business-operation-index - profit  
16 correlation-information group including correlation information which  
17 correlate the profit of the enterprise with the general business operation  
18 indexes, are stored in a data storage device;

19 a problem-index group is produced by extracting, as problem  
20 indexes indicating problems in the business operations to be improved, one  
21 or more business operation indexes from the general operation-index group  
22 and stored in the data storage device;

23 the second correlation-information group is produced by extracting  
24 correlation information relating to the problem indexes included in the  
25 problem-index group from the first correlation-information group;

26 a potential plan-of-measures group is produced by selecting one or  
27 more plans of measures relating to the second correlation-information group  
28 from the general plan-of-measures group;

29 a problem-index - profit correlation-information group is produced  
30 by extracting information which describe correlation relating to the problem  
31 indexes from the business-operation-index -profit correlation-information  
32 group;

33 input of the gross investment intended to invest in management

34 reforms is accepted by the information processor;

35           a final plan-of-measures group including plans of measures which  
36 maximize the profit of the enterprise is found out from the potential plan of  
37 means included in the potential plan-of-measures group, under the limiting  
38 conditions that the gross investment necessary to execute the each selected  
39 plan of measures is equal or lower than the input gross investment and that  
40 the each plans of measures is either adopted or not adopted; and  
41           the resultant final plans of measures are output.

1 11.       A system of assisting in forming plans of measures for management  
2 reforms executed by an information processor, wherein:

3           said information processor includes an input device, a data storage  
4 device, a central processor, and an output device;

5           said data storage device stores a general business-operation-index  
6 group including a plurality of indexes indicating the condition of business  
7 operation of an enterprise, a general plan-of-measures group including a  
8 plurality of plans of measures, each of which is information showing how to  
9 deal with the condition indicated by the respective indexes included in said  
10 general business-operation-index group, a first correlation-information group  
11 including a plurality of correlation information, each of which defines the  
12 correlation between the respective indexes included in the general  
13 business-operation-index group and the respective plans of measures  
14 included in the general plan-of-measures group, and a problem-index group  
15 produced by extracting, as problem indexes indicating problems in the  
16 business operations to be improved, one or more business operation indexes  
17 from the general operation-index group; and

18           said central processor executes the following steps of:  
19           producing a second correlation-information group by extracting  
20 correlation information relating to the problem indexes included in the  
21 problem-index group from the first correlation-information group;  
22           producing a potential plan-of-measures group by selecting one or  
23 more plans of measures relating to the second correlation-information group  
24 from the general plan-of-measures group; and  
25           outputting the resultant one or more potential plans of measures  
26 included in the potential plan-of-measures group through the input/output  
27 device.

1   12.       The system of assisting in forming plans of measures for  
2 management reforms executed by an information processor according to  
3 Claim 11, wherein:

4           the data storage device further stores risk level information  
5 indicating levels of risk caused when the each plan of measures included in  
6 the general plan-of-measures group is executed; and

7           the central processor executes the following steps of:  
8           accepting input of information designating the acceptable risk level;  
9   and

10          producing the second correlation-information group by extracting  
11 information which define correlation relating to the problem indexes and to  
12 plans of measures having a risk level equal or lower than the input risk  
13 level, from the first correlation-information group.

1   13.       The system of assisting in forming plans of measures for

2 management reforms executed by an information processor according to  
3 Claim 12, wherein:

4 the data storage device further stores gross investment information  
5 indicating the amount of investment necessary to execute the each plan of  
6 measures included in the general plan-of-measures, and a  
7 business-operation-index - profit correlation-information group including  
8 correlation information which correlate the profit of the enterprise with the  
9 general business operation indexes; and

10 the central processor further executes the following steps of:

11 producing a problem-index - profit correlation-information group by  
12 extracting information which describe correlation relating to the problem  
13 indexes from the business-operation-index - profit correlation-information  
14 group;

15 accepting input of the gross investment intended to invest in  
16 management reforms;

17 finding a final plan-of-measures group including plans of measures  
18 which maximize the profit of the enterprise from the potential plan of means  
19 included in the potential plan-of-measures group, under the limiting  
20 conditions that the gross investment necessary to execute the each selected  
21 plan of measures is equal or lower than the input gross investment and that  
22 the each plans of measures is either adopted or not adopted; and

23 outputting the resultant final plans of measures through the output  
24 device.

1 14. The system of assisting in forming plans of measures for  
2 management reforms executed by an information processor according to

3 Claim 13, wherein:

4 the central processor further executes the following steps of:

5 accepting input of target profit of the enterprise through the input  
6 device; and

7 judging whether the profit of the enterprise obtained by the each  
8 found plans of measures is equal or larger than the input target profit, to  
9 output the plans of measures through the output device when it is equal or  
10 larger.

1 15. The system of assisting in forming plans of measures for  
2 management reforms executed by an information processor according to  
3 Claim 14, wherein:

4 the central processor further executes the following steps of:

5 accepting change of the risk level when the profit of the enterprise  
6 given by the found plans of measures is less than the target profit through  
7 the input device; and

8 when the risk level is changed, selecting information which define  
9 correlation relating to the problem indexes and to the plans of measures  
10 having a risk level equal or lower than the changed risk level from the first  
11 correlation-information group, to produce the second correlation-information  
12 group.

1 16. The system of assisting in forming plans of measures for  
2 management reforms executed by an information processor according to  
3 Claim 14, wherein:

4 the central processor further executes the following steps of:

5           accepting change of the gross investment when the profit of the  
6 enterprise given by the found plan of measures is lower than the target profit  
7 through the input device;

8           finding a final plan of measures which maximizes the profit of the  
9 enterprise from the selected potential plans of measures under the limiting  
10 conditions that the gross investment necessary to execute the selected plan  
11 of measures is lower than the changed gross investment and that the each  
12 plan of measures is either adopted or not adopted; and

13           outputting the resultant final plans of measures through the output  
14 device.

1   17.       A program product read in and executed by a computer having a  
2 storage device to cause said computer to perform processing of assisting in  
3 forming plans of measures for management reforms, wherein:

4           the program causes the computer to perform the following  
5 processing of:

6           storing a general business-operation-index group including a  
7 plurality of indexes indicating the condition of business operation of an  
8 enterprise, a general plan-of-measures group including a plurality of plans of  
9 measures, each of which is information showing how to deal with the  
10 condition indicated by the respective indexes included in said general  
11 business-operation-index group, and the first correlation-information group  
12 including a plurality of correlation information, each of which defines the  
13 correlation between the respective indexes included in the general  
14 business-operation-index group and the respective plans of measures  
15 included in the general plan-of-measures group in a data storage device;

16 producing a problem-index group by extracting, as problem indexes  
17 indicating problems in the business operations to be improved, one or more  
18 business operation indexes from the general operation-index group and  
19 stored in the data storage device;

20 producing the second correlation-information group by extracting  
21 correlation information relating to the problem indexes included in the  
22 problem-index group from the first correlation-information group;

23 producing a potential plan-of-measures group by selecting one or  
24 more plans of measures relating to the second correlation-information group  
25 from the general plan-of-measures group; and

26 outputting the resultant one or more potential plans of measures  
27 included in the potential plans-of-measures group.

1 18. The program product for performing processing of assisting in  
2 forming plans of measures for management reforms according Claim 17,  
3 wherein:

4 the program causes the computer to further perform the following  
5 processing of:

6 further storing risk level information indicating levels of risk  
7 caused when the each plan of measures included in the general  
8 plan-of-measures group is executed in the data storage device;

9 accepting input of information designating the acceptable risk level;  
10 and

11 producing the second correlation-information group by extracting  
12 information which define correlation relating to the problem indexes and to  
13 plans of measures having a risk level equal or lower than the input risk

14 level, from the first correlation-information group.

1 19. The program product for performing processing of assisting in  
2 forming plans of measures for management reforms according Claim 18,  
3 wherein:

4 the program causes the computer to further perform the following  
5 processing of:

6 further storing gross investment information indicating the amount  
7 of investment necessary to execute the each plan of measures included in the  
8 general plan-of-measures, and a business-operation-index - profit  
9 correlation-information group including correlation information which  
10 correlate the profit of the enterprise with the general business operation  
11 indexes in the data storage device;

12 producing a problem-index - profit correlation-information group by  
13 extracting information which describe correlation relating to the problem  
14 indexes from the business-operation-index -profit correlation-information  
15 group;

16 accepting input of the gross investment intended to invest in  
17 management reforms;

18 finding a final plan-of-measures group including plans of measures  
19 which maximize the profit of the enterprise from the potential plan of means  
20 included in the potential plan-of-measures group, under the limiting  
21 conditions that the gross investment necessary to execute the each selected  
22 plan of measures is equal or lower than the input gross investment and that  
23 the each plans of measures is either adopted or not adopted; and

24 outputting the resultant final plans of measures.

1 20. The program product for performing processing of assisting in  
2 forming plans of measures for management reforms according Claim 19,  
3 wherein:

4 the program causes the computer to further perform the following  
5 processing of:

6 accepting input of target profit of the enterprise; and  
7 judging whether the profit of the enterprise obtained by the each  
8 found plans of measures is equal or larger than the input target profit, to  
9 output the plans of measures when it is equal or larger.

1 21. The program product for performing processing of assisting in  
2 forming plans of measures for management reforms according Claim 20,  
3 wherein:

4 the program causes the computer to further perform the following  
5 processing of:

6 accepting change of the risk level when the profit of the enterprise  
7 given by the found plans of measures is less than the target profit; and

8 when the risk level is changed, selecting information which define  
9 correlation relating to the problem indexes and to the plans of measures  
10 having a risk level equal or lower than the changed risk level from the first  
11 correlation-information group, to produce the second correlation-information  
12 group.

1 22. The program product for performing processing of assisting in  
2 forming plans of measures for management reforms according Claim 20,  
3 wherein:

4 the program causes the computer to further perform the following  
5 processing of:

6 accepting change of the gross investment when the profit of the  
7 enterprise given by the found plan of measures is equal or lower than the  
8 target profit;

9 finding a final plan of measures which maximizes the profit of the  
10 enterprise from the selected potential plans of measures under the limiting  
11 conditions that the gross investment necessary to execute the selected plan  
12 of measures is lower than the changed gross investment and that the each  
13 plan of measures is either adopted or not adopted; and

14 outputting the resultant final plans of measures.

1 23. A method of assisting in forming plans of measures for  
2 management reforms, which is executed by an information processor,  
3 wherein:

4 a general business-operation-index group including a plurality of  
5 indexes indicating the condition of business operation of an enterprise, a  
6 general plan-of-measures group including a plurality of plans of measures,  
7 each of which is information showing how to deal with the condition  
8 indicated by the respective indexes included in said general  
9 business-operation-index group, a first correlation-information group  
10 including a plurality of correlation information, each of which defines the  
11 correlation between the respective indexes included in the general  
12 business-operation-index group and the respective plans of measures  
13 included in the general plan-of-measures group and reference data, to which  
14 the condition of business operation of said enterprise is compared, are stored

15 in a data storage device;

16 input of information indicating the current condition of business  
17 operation of the enterprise is accepted by the information processor;

18 a problem-index group is produced by extracting, as problem  
19 indexes indicating problems in the business operations to be improved, one  
20 or more business operation indexes from the general operation-index group,  
21 on the basis of the result obtained by comparing the information indicating  
22 the current condition of business operation of the enterprise with the  
23 reference data for comparison and stored in the data storage device;

24 a second correlation-information group is produced by extracting  
25 correlation information relating to the problem indexes included in the  
26 problem-index group from the first correlation-information group;

27 a potential plan-of-measures group is produced by selecting one or  
28 more plans of measures relating to the second correlation-information group  
29 from the general plan-of-measures group; and

30 the resultant one or more potential plans of measures included in  
31 the potential plans-of-measures group are output.

1 24. The method of assisting in forming plans of measures for  
2 management reforms according to Claim 23, wherein:

3 reference data for comparison, which correspond to the category of  
4 business to which the enterprise belongs, are downloaded from a sever  
5 accumulating reference data for comparison via a network, and the  
6 problem-index group is produced by using the downloaded reference data for  
7 comparison.

1 25. The method of assisting in forming plans of measures for  
2 management reforms according to Claim 23, wherein:

3 reference data for comparison, which correspond to the category of  
4 business to which the enterprise belongs, are downloaded from a sever  
5 network accumulating reference data for comparison via a network and a  
6 program of assisting in forming plans of measures is downloaded from a  
7 server accumulating the same,

8 the downloaded program executes by the use of the reference data  
9 for comparison the following processing of:

10 accepting input of information indicating the current condition  
11 of business operation of the enterprise;

12 producing the problem-index group;

13 producing the second correlation-information group;

14 selecting the potential plan-of-measures; and

15 outputting the potential plans of measures.

1 26. The method of assisting in forming plans of measures for  
2 management reforms according to Claims 8, wherein:

3 information indicating the amount of investment necessary to  
4 execute the respective plans of measures, and a business-operation-index -  
5 profit matrix  $M_p$  which correlates the profit of the enterprise with the  
6 general business operation indexes, are stored in the storage device together  
7 with the general plans of measures;

8 a business-operation-index - profit matrix  $M_p'$  including elements  
9 relating to the selected problem-index vector  $f$  is produced from the  
10 business-operation-index - profit matrix  $M_p$ ;

11           input of the gross investment intended to invest in management  
12 reforms is accepted by the information processor;  
13           a final plan of measures which maximizes the profit of the  
14 enterprise is found from the selected plan-of-means vector  $x'$  as the potential  
15 plans of measures, under the limiting conditions that gross investment  
16 necessary to execute the each selected plan of measures is equal or lower  
17 than the input gross investment and that the each plan of measures is either  
18 adopted or not adopted; and  
19           the resultant final plan of measures is output.